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| NEWS | 4 | Oct 27 SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files |
| NEWS | 5 | Oct 27 Patent Assignee Code Dictionary now available in Derwent Patent Files |
| NEWS | 6 | Oct 27 Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX |
| NEWS | 7 | Nov 29 Derwent announces further increase in updates for DWPII |
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| NEWS | 9 | Dec 5 Trademarks on STN - New DEMAS and EUMAS Files |
| NEWS | 10 | Dec 15 2001 STN Pricing |
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| NEWS | 12 | Dec 17 Corrosion Abstracts on STN |
| NEWS | 13 | Dec 17 SYNTHLINE from Prous Science now available on STN |
| NEWS | 14 | Dec 17 The CA Lexicon available in the CAPLUS and CA files |
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| NEWS | 16 | Feb 06 Engineering Information Encompass files have new names |
| NEWS | 17 | Feb 16 TOXLINE no longer being updated |
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| NEWS INTER | | General Internet Information |
| NEWS LOGIN | | Welcome Banner and News Items |
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=> s fuzzy logic

2857 FUZZY
 7067 LOGIC
 L1 817 FUZZY LOGIC
 (FUZZY(W) LOGIC)

=> s image processing

114203 IMAGE
 281980 PROCESSING
 L2 4930 IMAGE PROCESSING
 (IMAGE(W) PROCESSING)

=> s l1 and l2

L3 11 L1 AND L2

=> d 1-11

L3 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 2001:110481 CAPLUS
TI Fuzzy neural network approach to classifying dyeing defects
AU Huang, Chang-Chiun; Yu, Wen-Hong
CS Department of Textile Engineering, National Taiwan University of Science
and Technology, Taipei, Taiwan
SO Text. Res. J. (2001), 71(2), 100-104
CODEN: TRJOA9; ISSN: 0040-5175
PB Textile Research Institute
DT Journal
LA English
RE.CNT 10
RE
(1) Chen, P; Textile Res J 1998, V68, P121 CAPLUS
(2) Gonzalez, R; Digital Image Processing, 1993
(3) He, W; J Intell Manuf 1998, V9, P17
(9) Sette, S; Textile Res J 1995, V65, P196 CAPLUS
(10) Tsai, I; Textile Res J 1995, V65, P123 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 2000:402680 CAPLUS
DN 133:219650
TI Mapping and fuzzy classification of macromolecular images using
self-organizing neural networks
AU Pascual, A.; Barcena, M.; Merelo, J. J.; Carazo, J.-M.
CS Centro Nacional de Biotecnologia-CSIC, Universidad Autonoma, Madrid,
28049, Spain
SO Ultramicroscopy (2000), 84(1/2), 85-99
CODEN: ULTRD6; ISSN: 0304-3991
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 37
RE
(4) Bonnet, N; J Microsc 1998, V190, P2 CAPLUS
(5) Carazo, J; J Microsc 1990, V157, P187 CAPLUS
(16) Harauz, G; Micron 1998, V29, P161 CAPLUS
(21) Kocsis, E; Ultramicroscopy 1995, V60, P219 CAPLUS
(24) Marabini, R; Biophys J 1994, V66, P1804 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1999:359894 CAPLUS
DN 131:225676
TI FEW-FTIR spectroscopy applications and computer data processing for
noninvasive skin tissue diagnostics in vivo
AU Brooks, Angelique L.; Afanasyeva, Natalia I.; Makhine, Vladimir; Bruch,
Reinhard F.; McGregor, Byron
CS Dep. Phys./220, Univ. of Nevada Reno, Reno, NV, USA
SO Proc. SPIE-Int. Soc. Opt. Eng. (1999), 3596(Specialty Fiber Optics for
Medical Applications), 140-151
CODEN: PSISDG; ISSN: 0277-786X
PB SPIE-The International Society for Optical Engineering
DT Journal

LA English
RE.CNT 46
RE
(1) Afanasyeva, N; Die Makromolekulare Chemie Macromol Symp 1995, V94, P269 CAPLUS
(5) Alsberg, B; Analyst 1997, V122, P645 CAPLUS
(12) Barclay, V; Analytical Chemistry 1997, V69, P78 CAPLUS
(19) Dwivedi, A; Macromolecules 1982, V15, P177 CAPLUS
(20) Frank, C; Analytical Chemistry 1995, V67(5), P777 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1998:633051 CAPLUS
DN 129:277884
TI Measurement and control of granule growth in fluidized bed granulation by a newly developed **image processing** system
AU Watano, S.; Miyanami, K.
CS Dep. Chemical Eng., Osaka Prefecture Univ., Osaka, Japan
SO World Congr. Part. Technol. 3 (1998), 208-218 Publisher: Institution of Chemical Engineers, Rugby, UK.
CODEN: 66PSA9
DT Conference; (computer optical disk)
LA English

L3 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1998:305618 CAPLUS
DN 129:88478
TI **Fuzzy logic** approaches to the analysis of HREM images of III-V compounds
AU Hillebrand, R.
CS Max-Planck-Institut fur Mikrostrukturphysik, Halle/Saale, D-06120, Germany
SO J. Microsc. (Oxford) (1998), 190(1/2), 61-72
CODEN: JMICAR; ISSN: 0022-2720
PB Blackwell Science Ltd.
DT Journal
LA English

L3 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1996:542092 CAPLUS
DN 125:230624
TI Control of granule growth in fluidized-bed granulation by an **image processing** system
AU Watano, Satoru; Sato, Yoshinobu; Miyanami, Kei
CS Dep. Chem. Eng., Osaka Prefecture Univ., Sakai, 593, Japan
SO Chem. Pharm. Bull. (1996), 44(8), 1556-1560
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1996:467883 CAPLUS
DN 125:140581
TI A self-tuning vision system for monitoring biotechnological processes. I. Application to production of pullulan by *Aureobasidium pullulans*
AU Guterman, H.; Shabtai, Y.
CS Dep. Electric and Computer Eng., Ben-Gurion Univ. Negev, Beer Sheva, 84105, Israel

SO Biotechnol. Bioeng. (1996), 51(5), 501-510
CODEN: BIBIAU; ISSN: 0006-3592
DT Journal
LA English

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1996:438213 CAPLUS
DN 125:98008
TI Defect detection in industrial radiography: a multiscale approach
AU Lefevre, M.
CS Dep. Surveillance Diagnostic Maintenance, Elec. France, Fr.
SO Collect. Notes Internes Dir. Etud. Rech.: Prod. Energ. (Hydraul., Therm.
Nucl.) (1996), 96NB00054, 196 pp.
CODEN: CNIEEZ; ISSN: 1161-0611
DT Report
LA French

L3 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1996:359052 CAPLUS
DN 125:14444
TI Monitoring microbial morphogenetic changes in a fermentation process by a
Self-Tuning Vision System (STVS)
AU Shabtai, Y.; Ronen, M.; Mukmenev, I.; Guterman, H.
CS Program Biotechnol., Ben-Gurion Univ. of the Negev, Beer Sheva, 84105,
Israel
SO Comput. Chem. Eng. (1996), 20(Suppl. A, European Symposium on Computer
Aided Process Engineering--6, 1996), S321-D326
CODEN: CCENDW; ISSN: 0098-1354
DT Journal
LA English

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1996:156723 CAPLUS
DN 124:218794
TI A **fuzzy logic** approach to quantitative HREM
AU Hillebrand, R; Werner, P; Hofmeister, H; Goesele, U
CS Max-Planck-Institut Mikrostrukturphysik, Halle, D-06120, Germany
SO Inst. Phys. Conf. Ser. (1995), Volume Date 1995, 146, 57-60
CODEN: IPCSEP; ISSN: 0951-3248
DT Journal
LA English

L3 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1994:684221 CAPLUS
DN 121:284221
TI **Fuzzy logic** control of CO₂ laser welding
AU Kinsman, G.; Duley, W. W.
CS Dept. Physics, University Waterloo, Waterloo, ON, N2L 3G1, Can.
SO Laser Inst. Am. [Publ.] (1994), 77(PROCEEDINGS OF THE LASER MATERIALS
PROCEEDING CONFERENCE, 1993), 160-7
CODEN: LIAAED
DT Journal
LA English

=> d 5,10 all

L3 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1998:305618 CAPLUS
DN 129:88478
TI **Fuzzy logic** approaches to the analysis of HREM images
of III-V compounds
AU Hillebrand, R.
CS Max-Planck-Institut fur Mikrostrukturphysik, Halle/Saale, D-06120,
Germany
SO J. Microsc. (Oxford) (1998), 190(1/2), 61-72
CODEN: JMICAR; ISSN: 0022-2720
PB Blackwell Science Ltd.
DT Journal
LA English
CC 76-2 (Electric Phenomena)
AB It is known that high-resoln. electron microscopy (HREM) can provide
quant. information on the properties of cryst. materials. The HREM
patterns of layered structures of III-V semiconductors vary with the
chem.
compn. of the latter within the sublattices, which is also influenced by
interdiffusion. Local variations of the crystal cell similarity are
recorded for image anal. and compared with templates of known material
compn. Of the advanced theories of data interpretation, the now
well-established **fuzzy logic** is highly suited for
corresponding **image processing** techniques. Combining
neighboring image cell similarities, the underlying chem. compn. is
evaluated by applying **fuzzy logic** criteria of
inference to masks of about 1 nm .times. 1 nm in size. The new approach
can be used to localize regions of significant changes in compn., i.e.
edge detection, and to det. the compn. across the interface region. The
methods introduced prove successfully applicable to simulated as well as
to exptl. images of AlAs/Al_xGa_{1-x}As. Similarity/compn. relations of
nonlinear as well as nonmonotonic characteristics are studied to
establish
an alternative **fuzzy logic** approach.
ST **fuzzy logic** HREM Group IIIA pnictide
IT High-resolution electron microscopy
Imaging
 (**fuzzy logic** approaches to anal. of HREM images of
 III-V compds.)
IT Group IIIA element pnictides
RL: PRP (Properties)
 (**fuzzy logic** approaches to anal. of HREM images of
 III-V compds.)
IT Mathematical methods
 (**fuzzy logic**; **fuzzy logic**
 approaches to anal. of HREM images of III-V compds.)

L3 ANSWER 10 OF 11 CAPLUS . COPYRIGHT 2001 ACS
AN 1996:156723 CAPLUS
DN 124:218794
TI A **fuzzy logic** approach to quantitative HREM
AU Hillebrand, R; Werner, P; Hofmeister, H; Goesele, U
CS Max-Planck-Institut Mikrostrukturphysik, Halle, D-06120, Germany
SO Inst. Phys. Conf. Ser. (1995), Volume Date 1995, 146, 57-60
CODEN: IPCSEP; ISSN: 0951-3248
DT Journal
LA English
CC 79-6 (Inorganic Analytical Chemistry)

AB Section cross-reference(s): 76
AB Analyzing HREM images of III-V compds., a **fuzzy logic** approach is developed to study interdiffusion phenomena in layered structures by using the monotonic relation of image similarity and chem. compn. under appropriate imaging conditions. Simulated and exptl. HREM images of Ga(As,P) (As/P variation) and (Al,Ga)As (Al/Ga variation) are analyzed by **fuzzy logic image processing** to ext. chem. reliefs.
ST group III V compd quant HREM; quant HREM **fuzzy logic**; electron microscopy high resoln **fuzzy logic**; gallium arsenide phosphide quant HREM; aluminum gallium arsenide quant HREM
IT Microscopy, electron (high-resoln., **fuzzy logic** approach to quant. HREM)
IT 37382-15-3, Aluminum gallium arsenide ((Al,Ga)As) 60953-19-7, Gallium arsenide phosphide
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC. (Process)
(A **fuzzy logic** approach to quant. HREM)

=> s glass or glassmaking

451947 GLASS
705 GLASSMAKING
L4 452001 GLASS OR GLASSMAKING

=> s furnace

L5 125915 FURNACE

=> s furnace#

L6 142482 FURNACE#

=> s 14 and 16

L7 9260 L4 AND L6

=> d his

(FILE 'HOME' ENTERED AT 12:23:50 ON 21 MAR 2001)

FILE 'CPLUS' ENTERED AT 12:24:10 ON 21 MAR 2001
L1 817 S FUZZY LOGIC
L2 4930 S IMAGE PROCESSING
L3 11 S L1 AND L2
L4 452001 S GLASS OR GLASSMAKING
L5 125915 S FURNACE
L6 142482 S FURNACE#
L7 9260 S L4 AND L6

=> s 11 and 17

L8 1 L1 AND L7

=> s 12 and 17

L9 2 L2 AND L7

=> s 18 or 19

L10 3 L8 OR L9

=> d 1-3 all

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS
AN 2000:602736 CAPLUS
DN 133:312492
TI Advancing control of **glass** melters and forehearths
AU Chmelar, Josef; Bodi, Robert; Muysenberg, Erik
CS Josef Chmelar and Robert Bodi, Glass Service Inc., Vsetin, Czech Rep.
SO Glass (2000), 77(7), 175-176, 178
CODEN: GLASAT; ISSN: 0017-0984
PB DMG World Media (uk) Ltd.
DT Journal
LA English
CC 57-1 (Ceramics)
Section cross-reference(s): 48
AB Practical experience of advanced control using-the GS Expert System II is demonstrated and explained. The system has been used in TV, glassfiber, float and special **glass** facilities, and with air-fuel and oxy-fuel technol. It has been proven that advanced control brings new level (generation) of process optimization to **furnace** technol., from batch charging through to conditioning. Topics include the control algorithm, multi input-multi output (MIMO), MIMO model-based control with feedback, model-based predictive control, **fuzzy logic** control, advanced concept-expert system, and application results of the expert system in melter, refiner and working end control, forehearth control, and elec. melter.
ST advancing control **glass** melter forehearth expert system
IT Process automation
 (advancing control of **glass** melters and forehearths)
IT Glass, preparation
 (RL: IMF (Industrial manufacture); PREP (Preparation)
 (advancing control of **glass** melters and forehearths)
IT Computer application
 (expert systems; advancing control of **glass** melters and forehearths)
IT Furnaces
 (glass-melting; advancing control of **glass** melters and forehearths)
RE.CNT 2
RE
(1) Mikulecky, P; Proceedings of the IV. International seminar on mathematical simulation in glass melting 1997, P172
(2) Muysenberg, E; Proceedings of the V. International seminar on mathematical simulation in glass melting 1999, P162

L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS
AN 2000:71567 CAPLUS
TI Optical device dedicated to the non-destructive observation and characterization of the solidification of bulk transparent alloys in situ and in real time
AU Noel, N.; Zamkotsian, F.; Jamgotchian, H.; Billia, B.

CS Laboratoire MATOP, Universite d'Aix-Marseille III, Associe au CNRS,
Faculte des Sciences et Techniques de Saint Jerome, Marseille, F-13397,
Fr.
SO Meas. Sci. Technol. (2000), 11(1), 66-73
CODEN: MSTCEP; ISSN: 0957-0233
PB Institute of Physics Publishing
DT Journal
LA English
AB An optical system has been developed to characterize transparent org.
alloys during their directional solidification *in situ* and in real time
inside bulk samples with a high aspect ratio. Std. solidification expts.
are performed within thin **glass** slides where solidification
behavior is modified compared with bulk solidification due to the space
constraint. On the other hand, the interface can be easily obsd. via a
microscope. For bulk samples, a more complex system had to be
implemented. We designed a specific **glass** observation cell and
an adapted solidification **furnace**. Optical elements were
integrated inside the **glass** observation cell contg. the
solidifying alloy. The resulting **glass** observation cell can be
easily used as a tool for many optical characterization methods. Here we
use the system to generate live images of the solid-liq. interface.

These

images, recorded on video, provided very interesting and fruitful
information on the dynamic phenomena appearing at the interface. The
whole interface as well as specific details of the interface could be
obsd. The images showed a resoln. of a few micrometres, suitable to
characterize interface features, as well as a high contrast and a const.
magnification. As a consequence, further **image**
processing to quant. characterize the solid-liq. interface could
be easily performed. A method to det. the av. radius of curvature of a
cellular array was also implemented and is presented here.

RE.CNT 11

RE

- (1) Billia, B; Handbook of Crystal Growth 1993, V1B
- (2) Billia, B; J Cryst Growth 1996, V167, P265 CAPLUS
- (3) Billia, B; Metal Trans A 1991, V22, P3041
- (4) Flemings, M; Solidification Processing 1974
- (5) Hecht, E; Optics 2nd edn 1990
- (6) Jackson, K; Acta Metall 1965, V13, P1212
- (7) Kassner, K; Phys Rev E 1998, V57, P2849 CAPLUS
- (8) Noel, N; Entropie 1999, V215, P74
- (9) Noel, N; J Cryst Growth 1997, V181, P117
- (10) Noel, N; J Cryst Growth 1998, V187, P516 CAPLUS
- (11) Scheafer, R; Metall Trans 1970, V1, P1973

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 1997:675312 CAPLUS

DN 127:335644

TI Quantitative estimation of **glass** content in granulated blast
furnace slag - a comparative analysis

AU Behera, R. C.; Swain, P. K.

CS Dept of Metallurgical Engg, Regional Engineering College, Rourkela, 769
008, India

SO Trans. Indian Ceram. Soc. (1997), Volume Date 1996, 55(6), 151-155
CODEN: TICSAZ; ISSN: 0371-750X

PB Indian Ceramic Society

DT Journal

LA English

CC 58-4 (Cement, Concrete, and Related Building Materials)
 Section cross-reference(s): 57, 79
 AB Three different methods, namely (i) **image processing**,
 (ii) XRD based on peak area or height and (iii) XRD based on pulse counts
 have been adopted for estn. of **glass** content in granulated blast
furnace-slag (BFS). Though the methods based on image anal. and
 XRD are found to be accurate, the latter is a time consuming technique.
 The av. difference of results as estd. by image anal. taken over five
 samples is found to be 0.05% with XRD based on pulse counts and 0.19%
 with
 XRD based on peak area.
 ST blast **furnace** slag **glass** content
 IT Blast **furnace** slags
 (quant. estn. of **glass** content in granulated blast
 furnace slag)
 IT **Glass**, analysis
 RL: ANT (Analyte); ANST (Analytical study)
 (quant. estn. of **glass** content in granulated blast
 furnace slag)
 IT Imaging
 X-ray diffractometry
 (quant. estn. of **glass** content in granulated blast
 furnace slag by)

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| DISPLAYS IN FORMAT BIB | 16 @ | 0.86 | 13.76 |
| DISPLAYS IN FORMAT IND | 5 @ | 0.26 | 1.30 |
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| CAPLUS FILE | (NONE) | 0.08 | 37.68 |
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| SUMMARY BY COST CENTER | HOURS | ESTIMATED COST
U.S. DOLLARS | |
| (NONE) | 0.09 | 37.89 | |
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ENTRY | TOTAL
SESSION | |
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|--|------------------|---------------|
| FULL ESTIMATED COST | 37.68 | 37.89 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -2.94 | -2.94 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:29:10 ON 21 MAR 2001

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Search Results:

Search for: ("fuzzy logic" and "glass furnace")
Database: [Electronic Journals](#)
Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:51:40 EST.

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Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals

This database contains 41,149,116 words in 393,619 documents.

There are 1,820,056 unique words and 547 stop words.

The database was indexed using the plural stemmer

Your search:

("fuzzy logic" and "glass furnace")

Is equivalent to:

((fuzzy logic ADJ) and AND (glass furnace ADJ) AND)

Search for 'fuzzy', stemmed to 'fuzzy'

'fuzzy' occurs 12,943 times in 2,260 documents

Search for 'logic', stemmed to 'logic'

'logic' occurs 1,632 times in 773 documents

Search for 'and', stemmed to 'and'

'and' is a stop word and is not indexed

Search for 'glass', stemmed to 'glass'

'glass' occurs 17,475 times in 7,338 documents

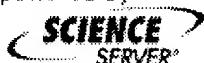
Search for 'furnace', stemmed to 'furnace'

'furnace' occurs 1,782 times in 1,071 documents

The search retrieved no documents.

The search took less than 2 seconds.

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Search Results:

Search for: ("membership function" and "glass furnace")
Database: [Electronic Journals](#)
Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:52:10 EST.
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Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals
This database contains 41,149,116 words in 393,619 documents.
There are 1,820,056 unique words and 547 stop words.
The database was indexed using the plural stemmer

Your search:
("membership function" and "glass furnace")

Is equivalent to:
((membership function ADJ) and AND (glass furnace ADJ) AND)

Search for 'membership', stemmed to 'membership'
'membership' occurs 655 times in 377 documents

Search for 'function', stemmed to 'function'
'function' occurs 50,740 times in 34,950 documents

Search for 'and', stemmed to 'and'
'and' is a stop word and is not indexed

Search for 'glass', stemmed to 'glass'
'glass' occurs 17,475 times in 7,338 documents

Search for 'furnace', stemmed to 'furnace'
'furnace' occurs 1,782 times in 1,071 documents

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Search Results:

Search for: ("fuzzy set" and "glass furnace")

Database: [Electronic Journals](#)

Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:52:30 EST.

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Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals

This database contains 41,149,116 words in 393,619 documents.

There are 1,820,056 unique words and 547 stop words.

The database was indexed using the plural stemmer

Your search:

("fuzzy set" and "glass furnace")

Is equivalent to:

((fuzzy set ADJ) and AND (glass furnace ADJ) AND)

Search for 'fuzzy', stemmed to 'fuzzy'

'fuzzy' occurs 12,943 times in 2,260 documents

Search for 'set', stemmed to 'set'

'set' occurs 17,800 times in 12,356 documents

Search for 'and', stemmed to 'and'

'and' is a stop word and is not indexed

Search for 'glass', stemmed to 'glass'

'glass' occurs 17,475 times in 7,338 documents

Search for 'furnace', stemmed to 'furnace'

'furnace' occurs 1,782 times in 1,071 documents

The search retrieved no documents.

The search took less than a second.

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Search Results:

Search for: (fuzzy glassmaking) AND category=("infocomm")

Database: [Electronic Journals](#)

Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:53:21 EST.

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Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals

This database contains 41,149,116 words in 393,619 documents.

There are 1,820,056 unique words and 547 stop words.

The database was indexed using the plural stemmer

Your search:

(fuzzy glassmaking) AND category=("infocomm")

Is equivalent to:

(fuzzy glassmaking AND) (category="infocomm") AND

Search for 'fuzzy', stemmed to 'fuzzy'

'fuzzy' occurs 12,943 times in 2,260 documents

Search for 'glassmaking', stemmed to 'glassmaking'

'glassmaking' occurs 2 times in one document

Search for "'infocomm)": restricted to '=' in 'category' field

Literal search for 'infocomm'

'infocomm' occurs 21,145 times in 21,145 documents

The search retrieved no documents.

The search took less than a second.

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| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|---|---|------------------|
| 3 | 1225 | membership adj function | USPAT; US-PGPUB | 2001/03/21 11:51 |
| 4 | 321 | inference adj rule | USPAT; US-PGPUB | 2001/03/21 11:52 |
| 5 | 681 | fuzzy adj set | USPAT; US-PGPUB | 2001/03/21 12:03 |
| 6 | 4330 | melting adj furnace | USPAT; US-PGPUB | 2001/03/21 12:04 |
| 7 | 3 | (membership adj function) and (melting adj furnace) | USPAT; US-PGPUB | 2001/03/21 12:04 |
| 8 | 2 | (inference adj rule) and (melting adj furnace) | USPAT; US-PGPUB | 2001/03/21 12:04 |
| 9 | 2 | (fuzzy adj set) and (melting adj furnace) | USPAT; US-PGPUB | 2001/03/21 12:04 |
| 10 | 3 | ((membership adj function) and (melting adj furnace)) or ((inference adj rule) and (melting adj furnace)) or ((fuzzy adj set) and (melting adj furnace)) | USPAT; US-PGPUB | 2001/03/21 12:05 |
| 11 | 413968 | image or video | USPAT; US-PGPUB | 2001/03/21 12:06 |
| 12 | 1 | (((membership adj function) and (melting adj furnace)) or ((inference adj rule) and (melting adj furnace)) or ((fuzzy adj set) and (melting adj furnace))) and (image or video) | USPAT; US-PGPUB | 2001/03/21 12:09 |
| 13 | 2008 | glass adj furnace | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/21 12:10 |
| 14 | 70 | (image or video) and (glass adj furnace) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/21 12:10 |
| | 47 | 65/29.11.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 13:30 |
| - | 14489 | fuzzy | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 13:30 |
| - | 1 | 65/29.11.ccls. and fuzzy | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 13:32 |
| - | 65502 | c03b\$.ipc. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 13:33 |
| - | 28 | fuzzy and c03b\$.ipc. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 13:33 |
| - | 1 | EP-976685-\$.DID. | DERWENT | 2001/03/19 14:01 |
| - | 1132 | glass adj furnace | USPAT | 2001/03/19 14:09 |

| | | | | |
|--|------|---|---|------------------|
| | 2006 | glass adj furnace | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/21 12:09 |
| | 5 | fuzzy and (glass adj furnace) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 14:10 |
| | 3 | (fuzzy and (glass adj furnace)) not ((fuzzy and c03b\$.ipc.) or (65/29.11.ccls. and fuzzy)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2001/03/19 14:10 |